

METHODS FOR IDENTIFYING INHIBITORS OF NEURONAL DEGENERATION

McCarthy, et al.

Appl. No.: 09/754, 949 Atty. Docket: SCIOS.012A



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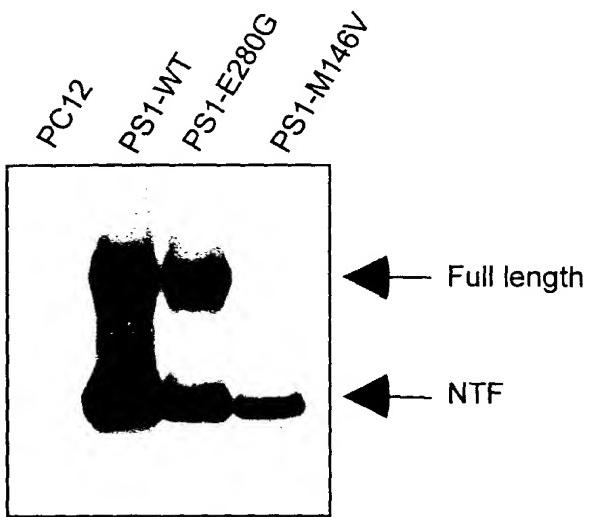


FIG. 1A

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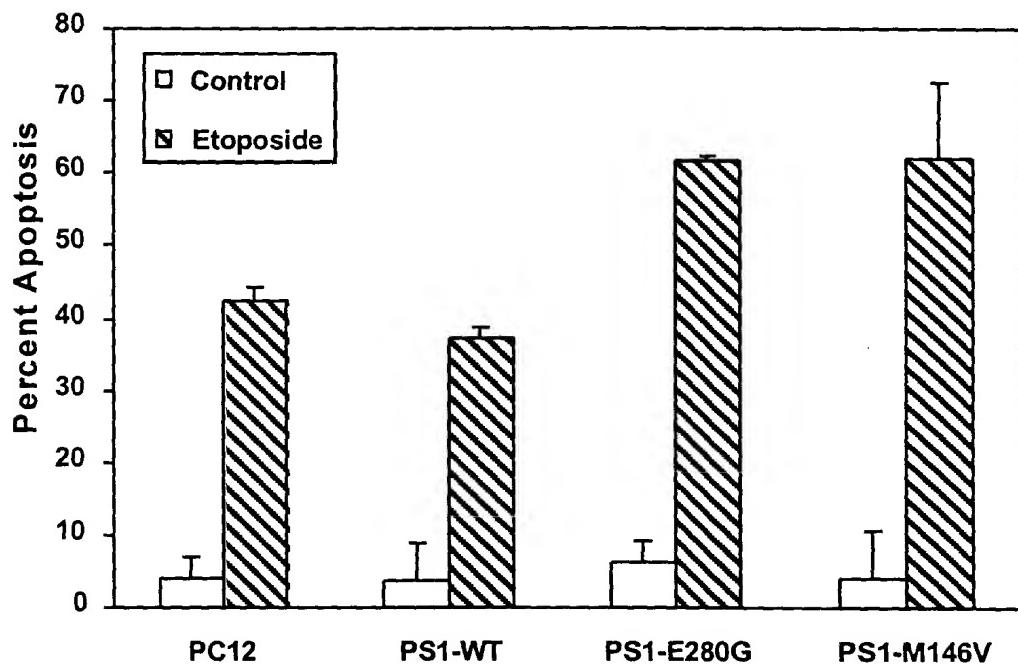


FIG. 1B

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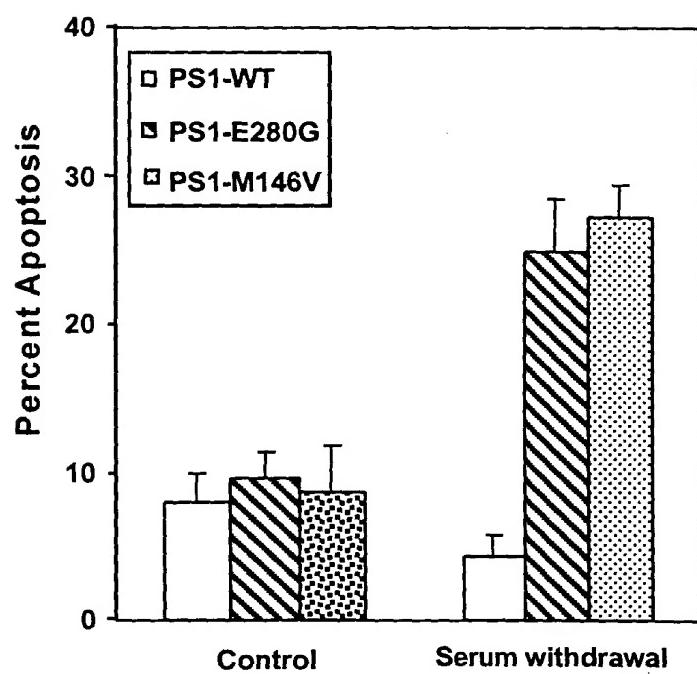


FIG. 1C

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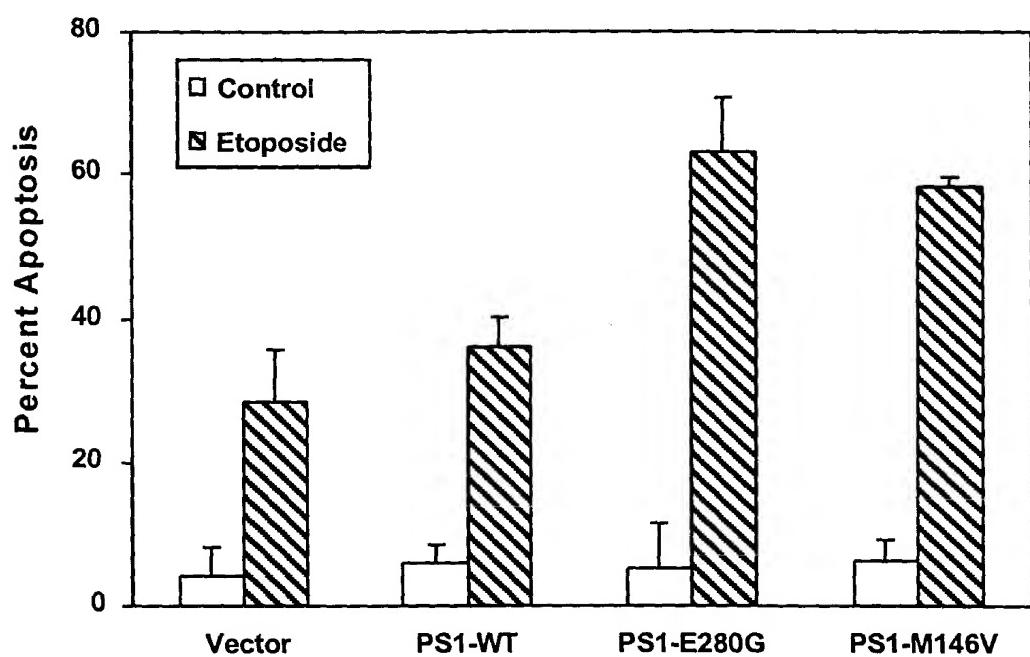


FIG. 1D

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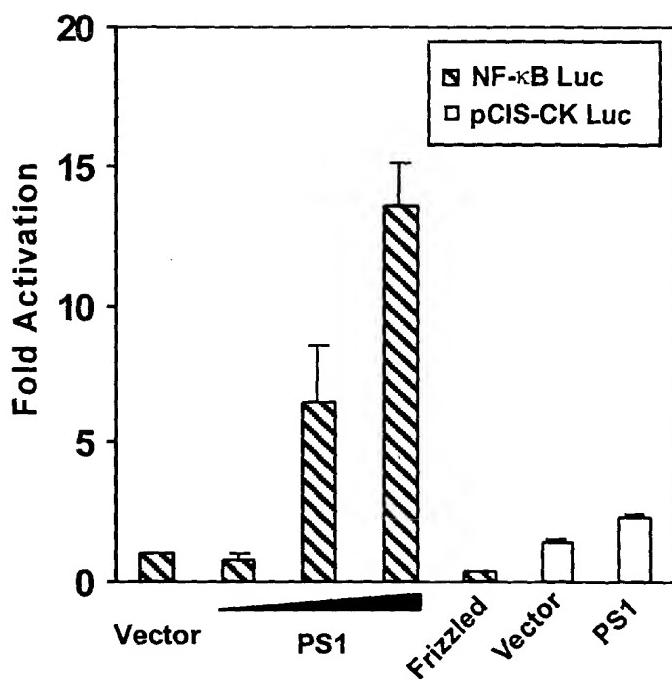


FIG. 2A

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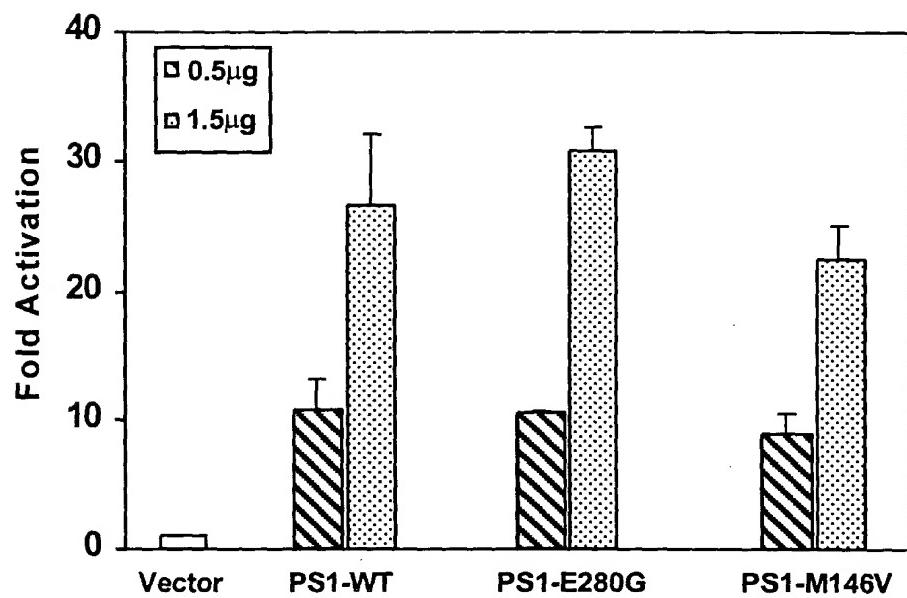


FIG. 2B

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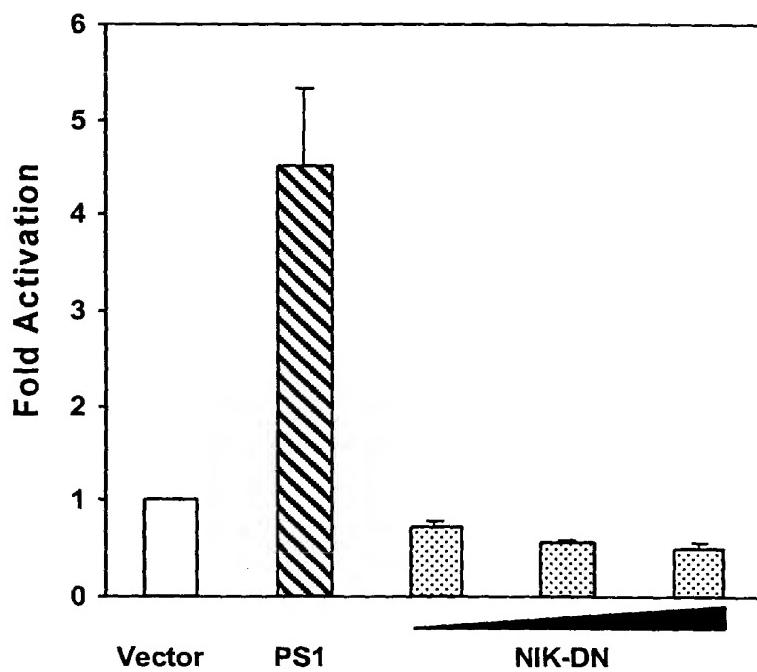


FIG. 3A

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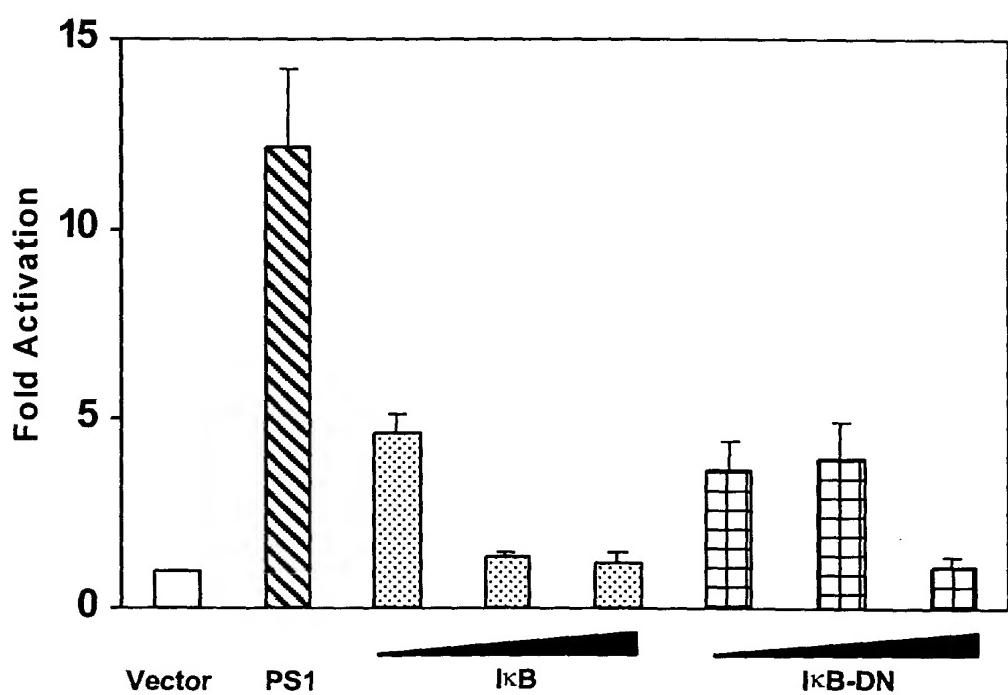


FIG. 3B

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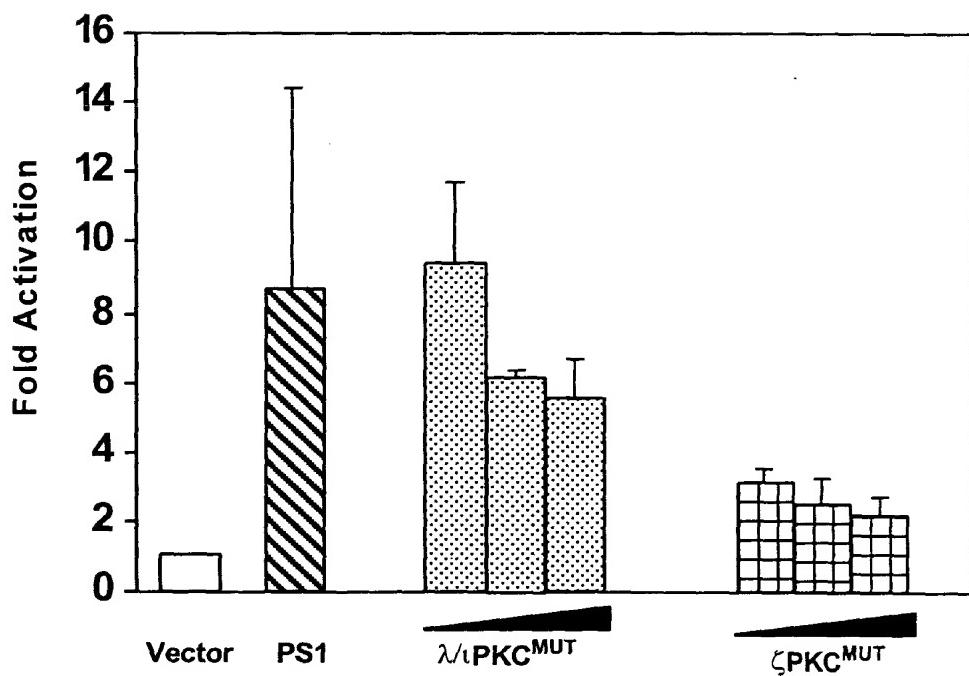


FIG. 4A

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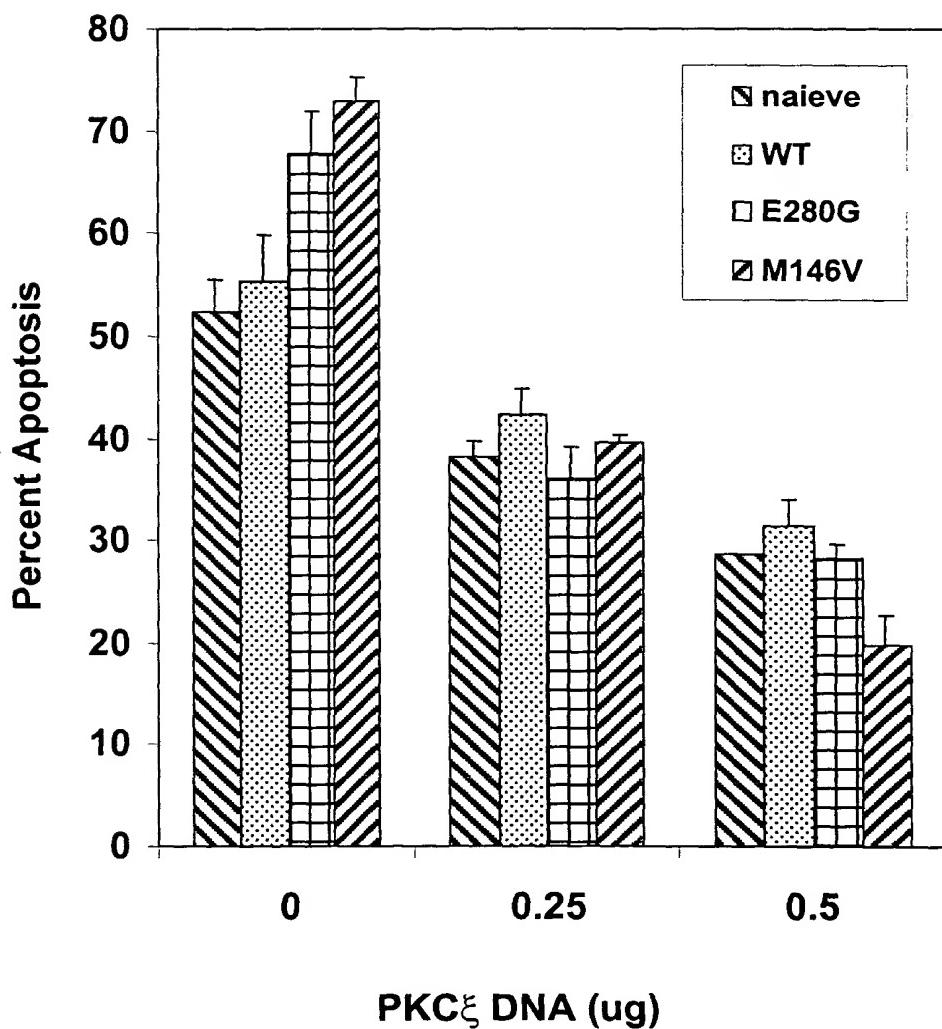


FIG. 4B

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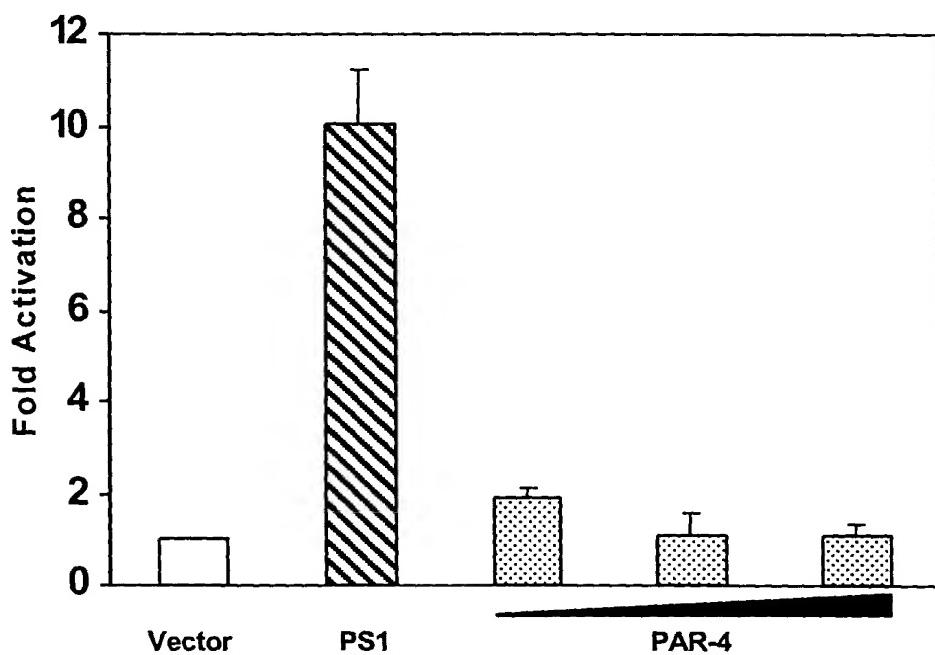


FIG. 4C

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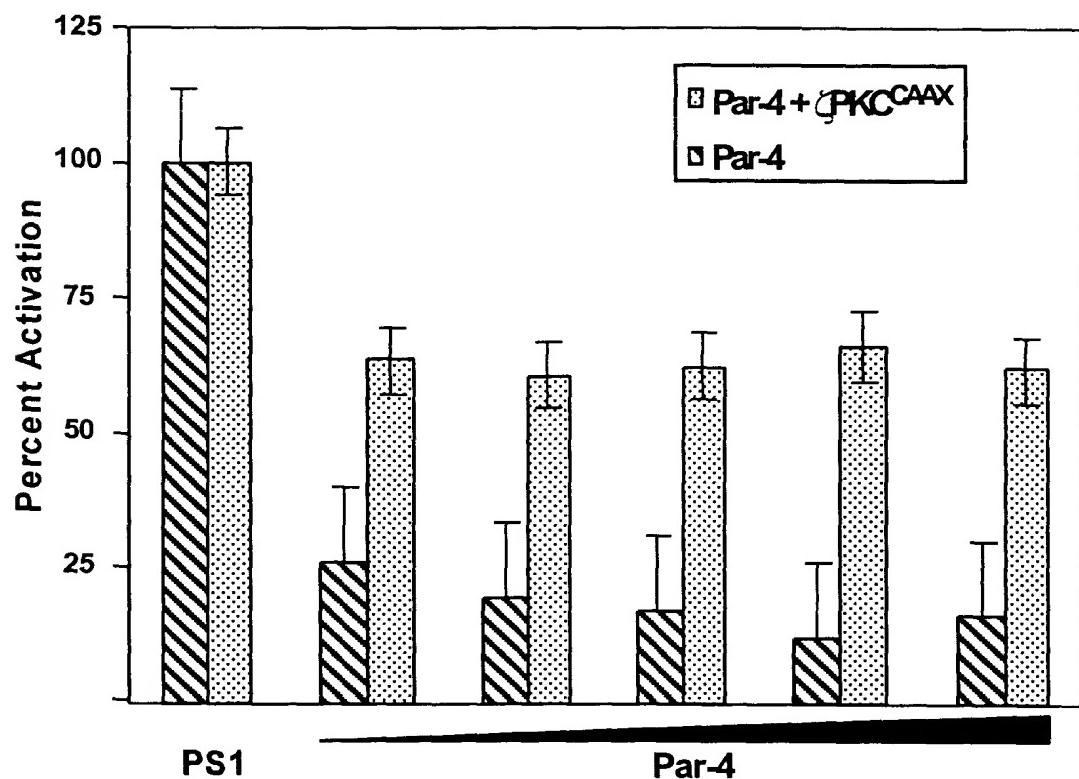


FIG. 4D

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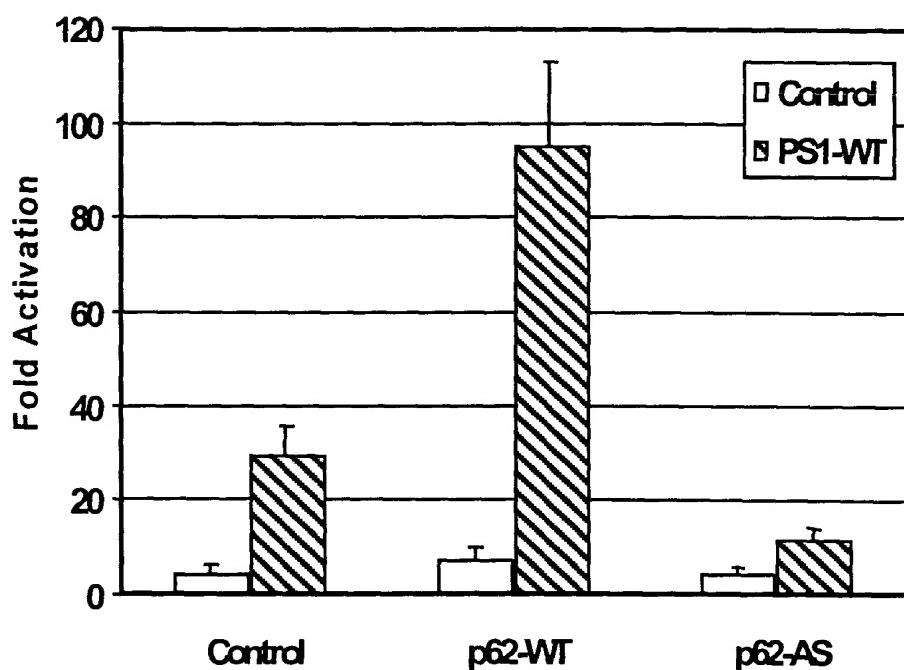


FIG. 4E

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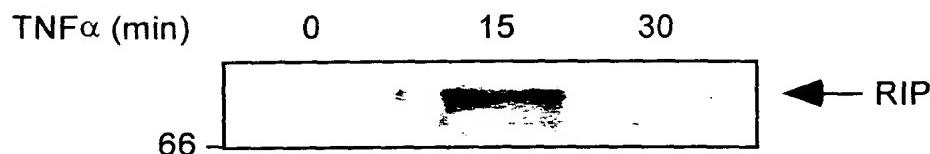


FIG. 5A

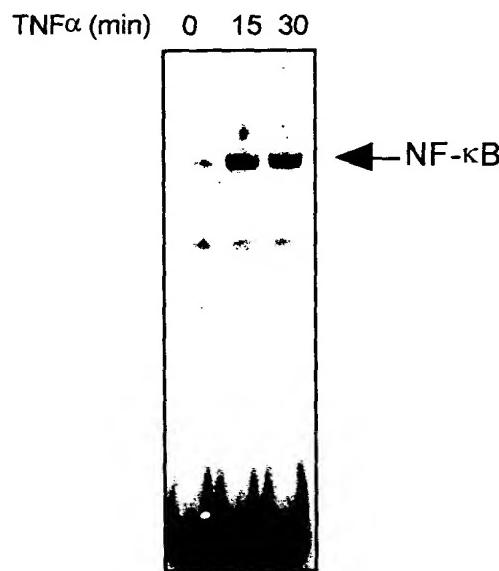


FIG. 5B

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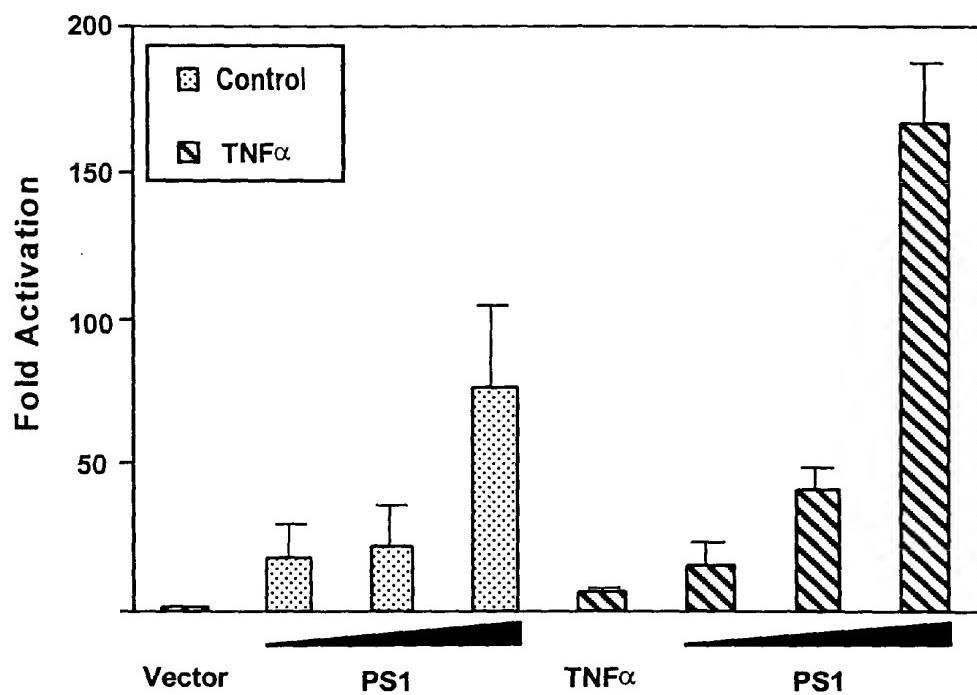


FIG. 5C

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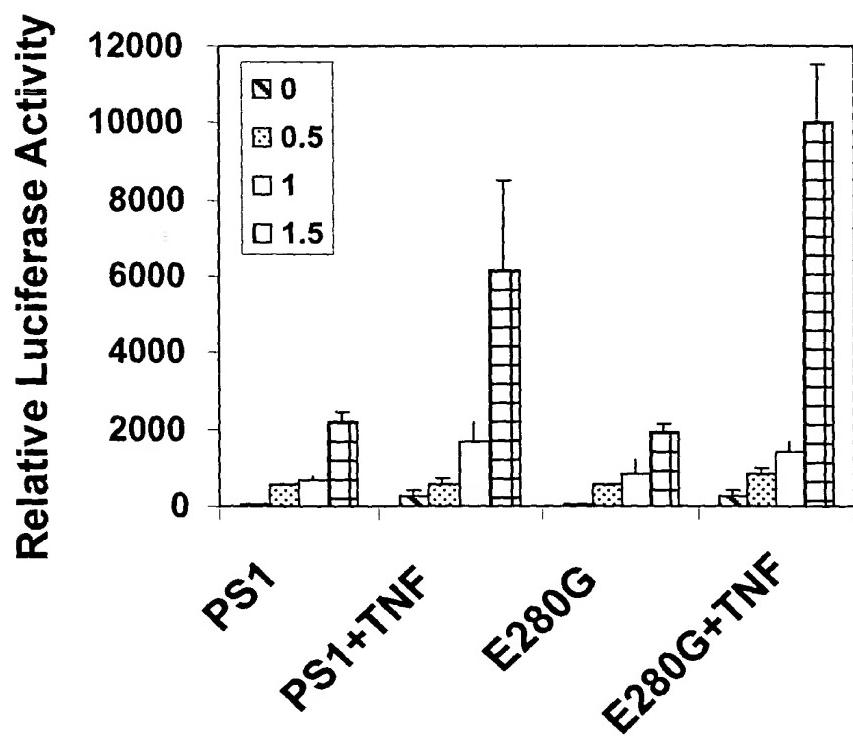


FIG. 5D

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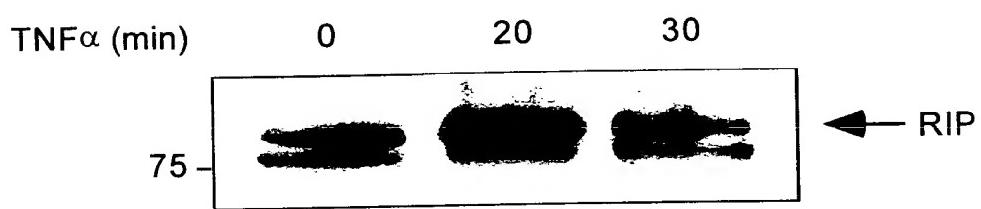


FIG. 6A

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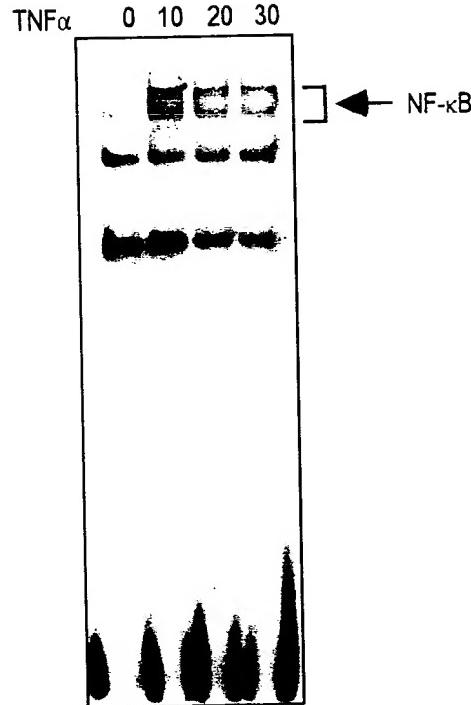


FIG. 6B

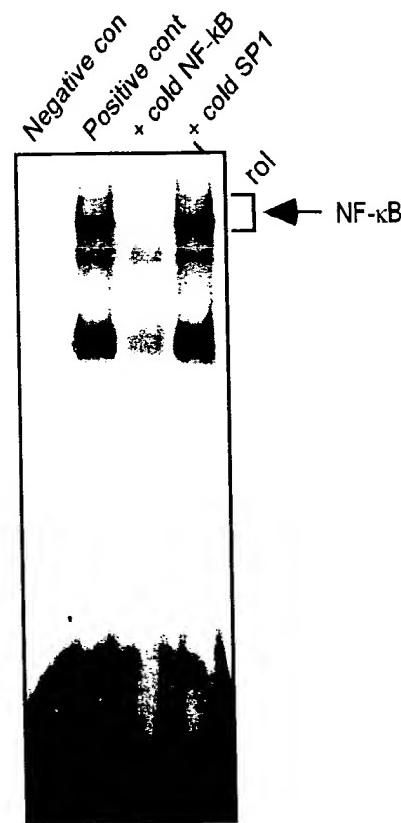


FIG. 6C

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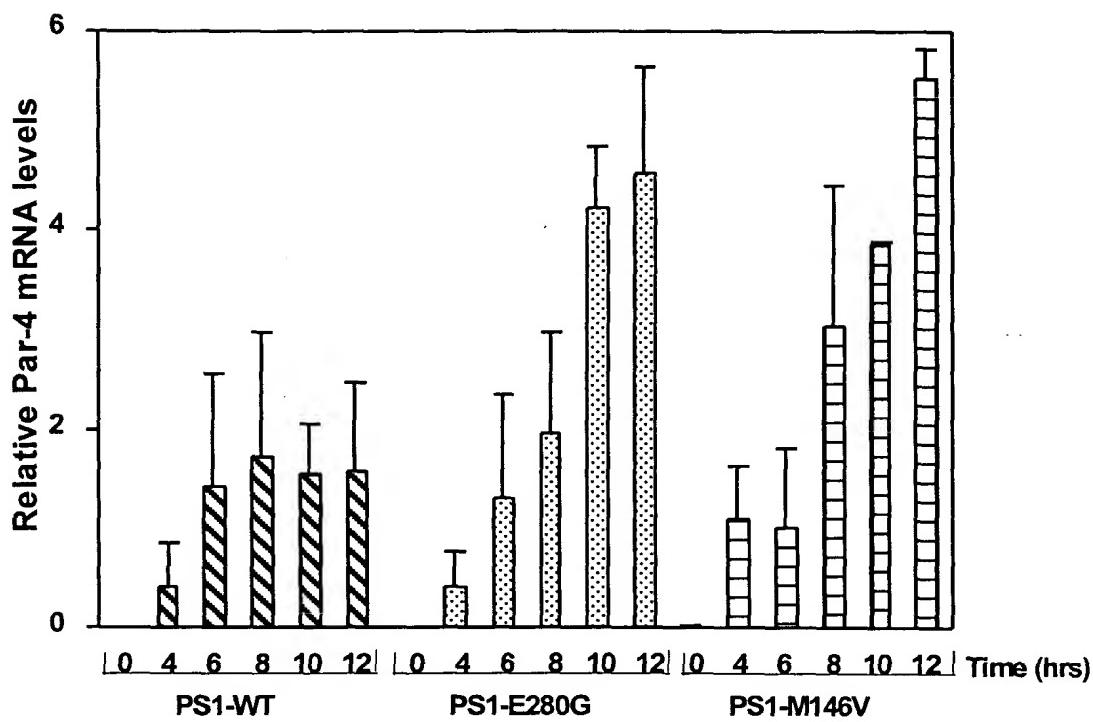


FIG. 7A

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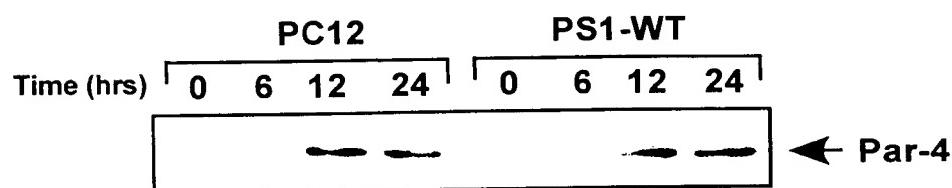


FIG. 7B

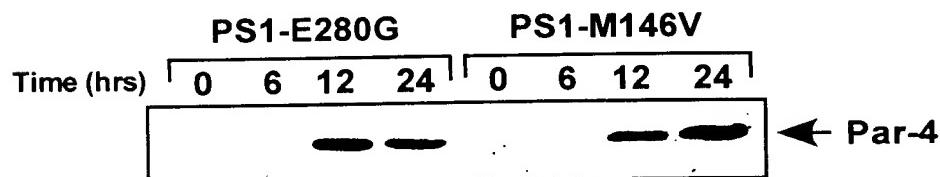


FIG. 7C

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FIG. 8A

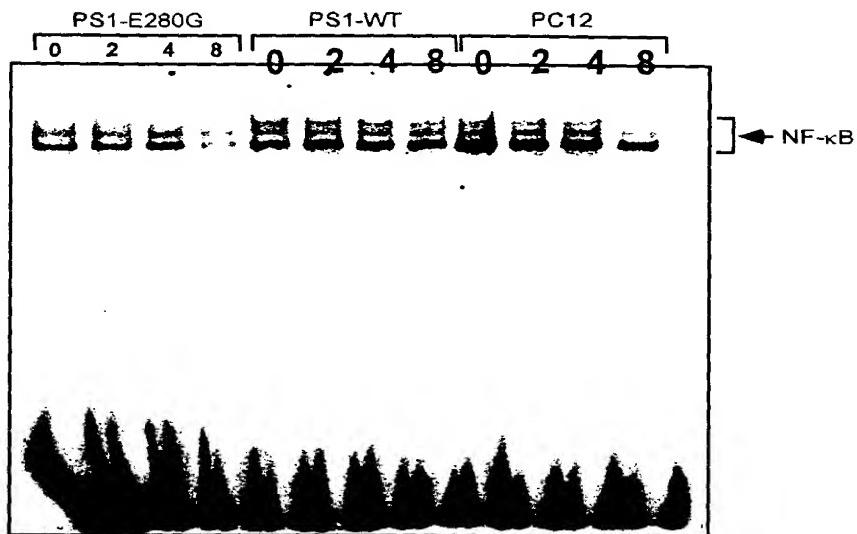
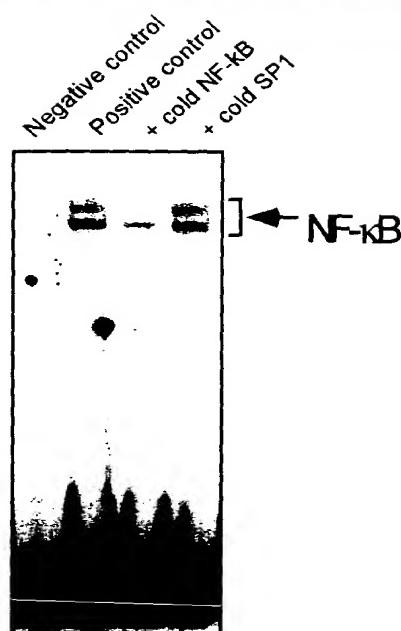


FIG. 8B



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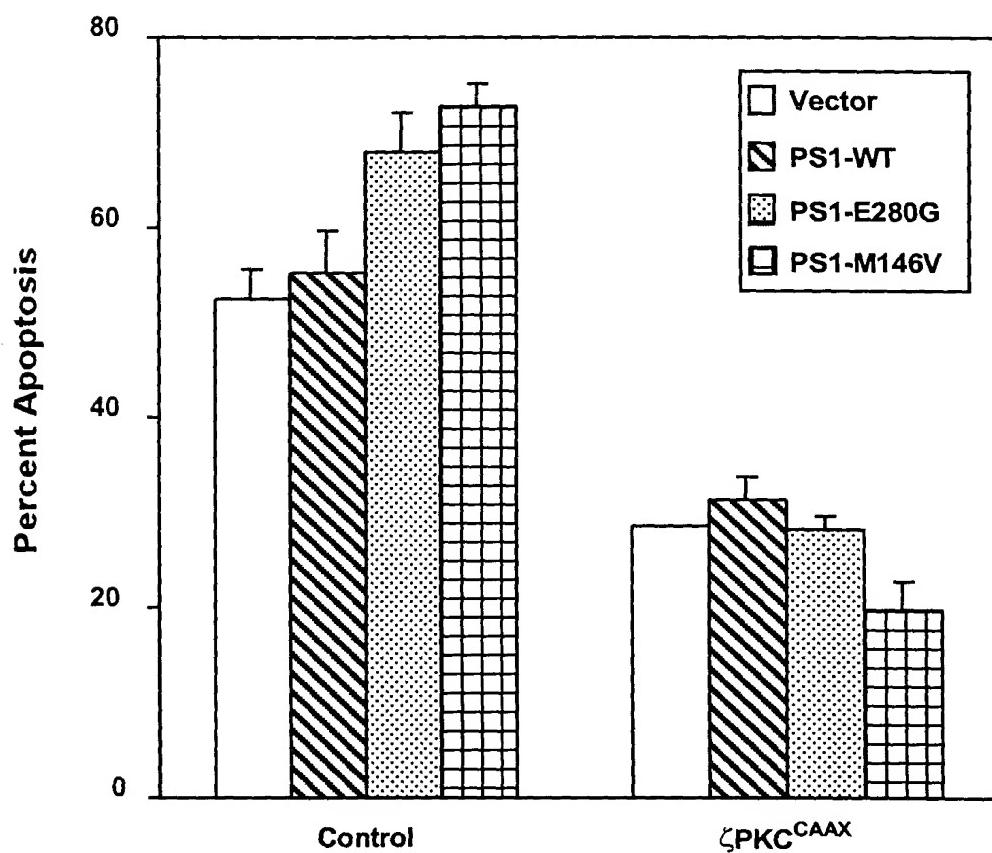


FIG. 9A

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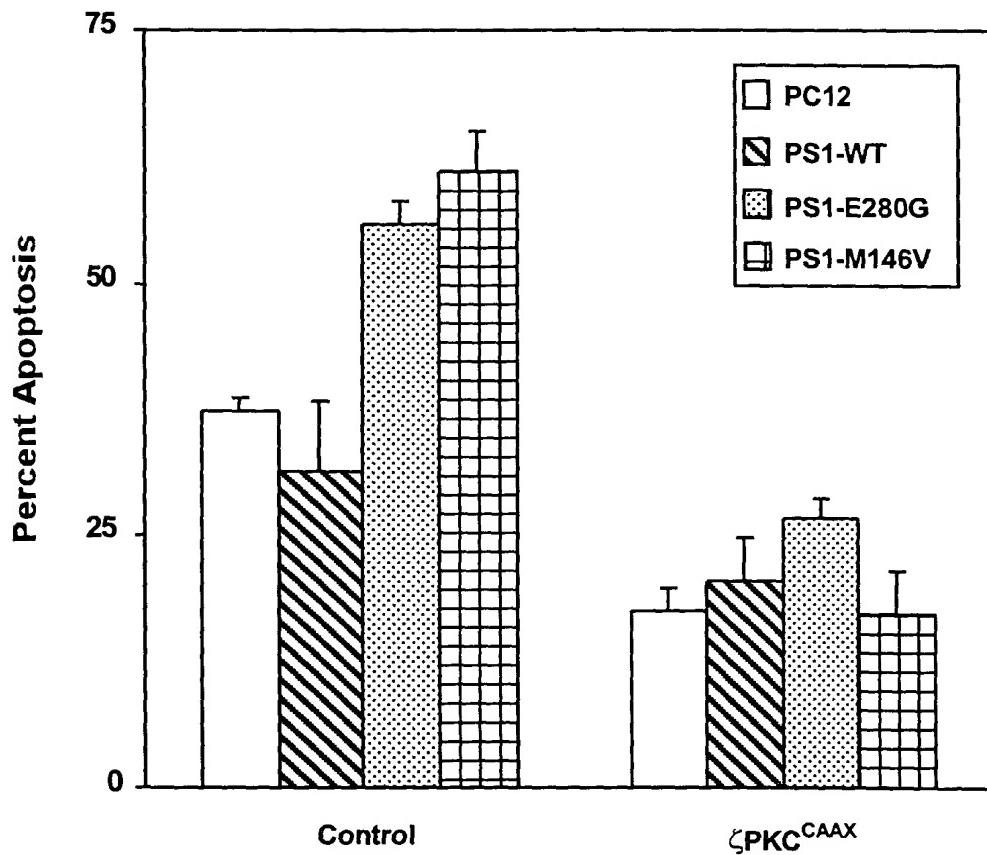


FIG. 9B

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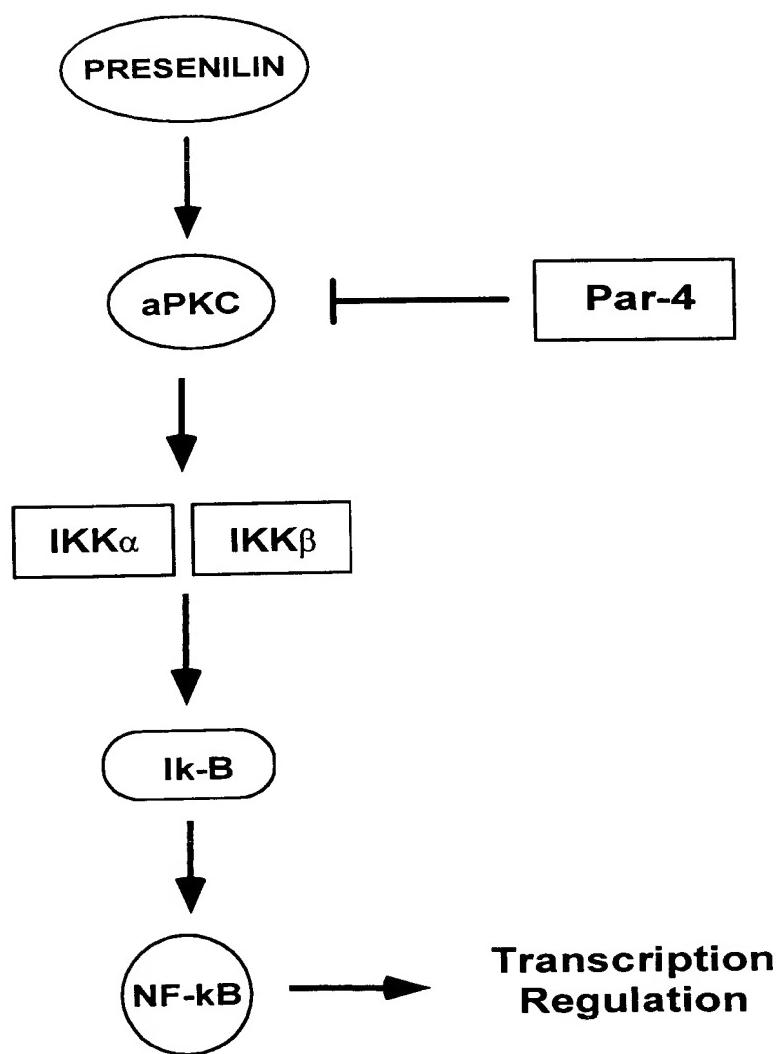


FIG. 10



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ATGCGCGCCAAGCAGAACCCCCGGGCCCGCCGGGGGGCAGCAGCGACGCCGC
TGGGAAGCCCCCGCGGGGGCTCTGGGCAACCCGGCGCCGCTGCCAACGAGCTCAACA
ACAACCTCCCAGGGCGCGCCGCCGACCTGCCGTCCCCGGTCCCGGGGGCGTGAACCTGC
GCGGTGGCTCCGCCATGCTGACGCCGGCGCCCCGGGCCGCCGCGCCGGCGGTGGAGGA
CGAGCCCCCAGCCGCCTCTGCCTCGGCTGCACGCCGCCAGCGTGACGAGGAGGAGCCGG
ACGGCGTCCCAGAGAAAGGGCAAGAGCTCGGGCCCCAGTGCCAGGAAAGGCAAGGGCAGATC
GAGAAGAGGAAGCTGCAGGGAGAACCGCGCTCCACCGCGTGGTCACACATCCCTGCCGAGA
GTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAA
TTACACAACAGAACACTATTCAAATGAAAGCTGTAACCTACTAGATCCAGGCAGTTCTAT
CTGCTACAGGAGGCCACCTAGAACAGTTCAAGGAGATATAAAAGCACAAACCAGTGTCTGA
AGAAGATGTCTCAAGTAGATATTCTGAACAGATAGAAGTGGTTCCCTAGATATAACAGGG
ATGCAAATGTTCAAGGTACTCTGGTTCAAGTAGCACACTGGAAAAGAAAATTGAAGATCTT
GAAAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAACAGACTTGAGACTGATGCAAGATAA
AGAGGAAATGATTGGAAAACCTAAAGAAGAAATTGATTATAATAGAGACCTAGATGACA
TAGAACAGCTAAAGCAGGAAAATAAAACTCTTTGAAAGTTGTGGGTCAAG
CTGACCAAGGTAG

FIG. 11A

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MATGGYRTSSGGGTTDWKAKRKMRAKNGAGGGSSDAAGKAGAGTAAAAANNNNGAAAAGV
GGVNCAVGSAMTRAARGRRSDAASASAARDDGVKGKSSGSARKGKGKRKRSTGVVNAAC
DYDDAGKRKRDATNTNAVNDGSSYRTVSGRYKSTTSVSDVSSRYSRTDRSGRYNRDANVSGT
VSSSTKKDKVVTRNVRMDKMGKKDNRDDDNKNKTVVGTRMATGGYRTSSGGGSTDWKA
KRKMRAKNGAGGGSSDAAGKAGAGTAAAAANNNNGAAAAGGGVNCAVGSAMTRAARGRRD
AASASAARDDGVKGKSSGSARKGKGKRKRKR

FIG. 11B



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ATGACAGAGTTACCTGCACCGTTGTCCTACTTCCAGAACATGCACAGATGTCTGAG
GACAACCACCTGAGCAATACTGTACGTAGCCAGAACATGACAATAGAGAACGGCAG
GAGCACAACGACAGACGGAGCCTGGCCACCCCTGAGCCATTATCTAATGGACGA
CCCCAGGGTAACTCCCGCAGGTGGTGGAGCAAGATGAGGAAGAACATGAGGAG
CTGACATTGAAATATGGCGCCAAGCATGTGATCATGCTTTGCCCTGTGACT
CTCTGCATGGTGGTGGTGGCTACCATTAAGTCAGTCAGCTTGTACCCGG
AAGGATGGGCAGCTAATCTATACCCCATTACAGAACATACCGAGACTGTGGGC
CAGAGAGCCCTGCACTCAATTCTGAATGCTGCCATCATGATCAGTGTATTGTT
GTCATGACTATCCTCCTGGTGGTTCTGTATAAAATACAGGTGTACATTACTGTT
CATGCCTGGCTTATTATCATCTATTGTTGCTGTTCTTTCATTCAATT
TACTTGGGGAAAGTGTAAAACCTATAACGTTGCTGTGGACTACATTACTGTT
GCACTCCTGATCTGGAATTGGTGGTGGGAATGATTCCATTCACTGGAAA
GGTCCACTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCTCATGGCC
CTGGTGTATTCAAGTACCTCCCTGAATGGACTGCGTGGCTCATCTTGGCTGTG
ATTTCACTGTTGCTGTTGCTGTTGTCCGAAAGGTCCACTCGTATG
CTGGTTGAAACAGCTCAGGAGAGAAATGAAACGCTTTCCAGCTCTCATTAC
TCCTCAACAATGGTGTGGTGGTAATATGGCAGAACGGAGACCCGGAAGCTCAA
AGGAGAGTATCCAAAATCCAAGTATAATGCAGAACAGCACAGAAAGGGAGTCA
CAAGACACTGTTGCAGAGAACATGATGATGGCGGGTTCACTGAGTCACGAGCTGCT
CAGAGGGACAGTCATCTAGGGCCTCATCGCTACACCTGAGTCACGAGCTGCT
GTCCAGGAACCTTCCAGCAGTATCCTCGCTGGTGAAGACCCAGAGGAAGGGGA
GTAAGGAACTTGGATTGGAGATTCTACAGTGTCTGGTGGTAAAGCC
TCAGCAACAGCCAGTGGAGACTGGAACACAAACCATAGCCTGTTCTAGCCATA
TTAATTGGTTGTGCCTTACATTATTACTCCTGCCATTTCAGAACAGCTTAG
CCAGCTCTCCAATCTCCATCACCTTGGCTGTTCTACTTGCCACAGAT
TATCTTGACAGCCTTTATGGACCAATTAGCATTCCATCAATTATATCTAG

FIG. 12A



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MTEL PAPLSYFQNAQMSEDNHLSNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSRQV
VEQDEEEDEELTLKYGAKHVIMLFVPVTLCMVVVVATIKSVSFYTRKDQQLIYTPTEDTET
VGQRALHSILNAAIMISIVVMTILLVVLKYRCYKVIHAWLISSLLLFFFSTIYLGEVF
KTYNVAVDYITVALLIWNFGVVMISIHKGPLRLQQAYLIMISALMALVFIKYLPEWTAWL
ILAVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTMVWL VNMAEGDPEAQRRVS
KNSKYN AESTERESQDTVAENDDDGFSEEWEAQRD SHLGPHRSTPESRAAVQELSSSI LAGE
DPEERGVKLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCLL LLAIFKKALPA
LPISITFGLVFYFATDYLVQPFMDQLAFHQFYI

FIG. 12B



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ATGCTCACATTCATGGCCTCTGACAGCGAGGAAGAACGTGTGATGAGCGGACGTCCCTAAAT
GTCGGCCGAGAGCCCCACGCCGCGCTCCGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAG
AGAACACTGCCAGTGGAGAACGCCAGGAGAACGAGGAGGACGGTGAGGAGGACCCTGACCGC
TATGTCTGTAGTGGGTTCCCGGGCGGCCAGGCCTGGAGGAAGAGCTGACCCCTCAAATA
CGGAGCGAACGACGTGATCATGCTGTTGTGCCTGTCACTCTGTGATGATCGTGGTAG
CCACCATCAAGTCTGTGCCTCTACACAGAGAACGAGCTCATCTACACGACATT
ACTGAGGACACACCCCTGGTGGGCCAGGCCCTCAACTCCGTGCTGAACACCCCTCATCAT
GATCAGCGTCATCGTGGTTATGACCATCTTCTTGGTGGTGCCTACAAGTACCGCTGCTACA
AGTTCATCCATGGCTGGTTGATCATGTCTCACTGATGCTGCTGTTCCCTCTCACCTATATC
TACCTTGGGAAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCACCCCTTGCTGAC
TGTCTGGAACCTCGGGCAGTGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGC
AGCAGGCCTACCTCATGATCAGTGCCTCATGGCCCTAGTGTTCATCAAGTACCTCCCA
GAGTGGTCCCGTGGTCATCCCTGGGCCATCTGTGTATGATCTCGTGGCTGTGCTG
TCCCAAAGGGCCTGTGAGAATGCTGGTAGAAACTGCCAGGAGAGAACGACCCATATTCC
CTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGGCATGGCAAGCTGGACCCCTCC
TCTCAGGGTGCCCTCCAGCTCCCTACGACCCGGAGATGGAAGAACGACTCCTATGACAGTT
TGGGGAGCCTCATACCCGAAGTCTTGAGCCTCCCTGACTGGCTACCCAGGGGAGGGCT
GGAGGAAGAGGAGGAAGGGCGTGAAGCTTGGCCTGGGACTTCATCTTACAGTGTGC
TGGTGGGCAAGGCCTGCCACGGGCAGCGGGACTGGAATACCACGCTGGCCTGTTCAAGAACGGCGTGC
GCCATCCTCATGGCTGTGCTGACCCCTGCTGCTGTTCAAGAACGGACAACCTGGTGC
GCCCTCCCCATCTCCATCACGTTGGGCTCATCTTACTTCTCCACGGACAACCTGGTGC
GGCGTTCATGGACACCCCTGGCCTCCCATCAGCTACATCTGA

FIG. 13A



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MLTFMASDSEEVCERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDR
YVCSGVGRPPGLEEEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTF
TEDTPSVGQRLLNSVLNTLIMISIVVMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYI
YLGEVLKTYNVAMDYPPLLTVWNFGAVGMCIHWKGPLVLQQAYLIMISALMALVEFIKYLPE
EWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVWTVGMAKLDPS
SQGALQLPYDPEMEEDSYDSFGEPSYPEVFEPPLTGYPGEEEEEERGVKLGLGDFIFYSV
LVGKAAATGSGDWNTTLACFVAILIGLCLLLLAVFKKALPALPISITFGLIFYFSTDNLV
RPFMDTLASHQLYI

FIG. 13B



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GAATTGGCACGAGGGCGCCGCTGGCTCCCTCCGCCCTGGCTCCCTCCCTCCCTC
CCTCCTTCTTCTCCCTCCCTGGGATTGCCTGGAGCTCCGCACCGCGAGTTGCCGC
GGCACTTCCGCGCGGCGGAAGAGCGCGGCCAGCTCGGCACACCTGGGAGCCGGATCCCAGC
CCTACGCCTCGTCCCCCTACAAGCTCCTCCAAGCCCCGCCGGCTGCTGTGGGAGCGGCGGCCGTC
CCTCTCCTGGAGGTCGTCTCCTGGCATCCTCGGGGCCGCAGGAAGGAAGAGGAGGCAGCGGCCG
GAGCCCTGGTGGCGGCCTGAGGTGAGAGCCCCGACCGGCCCTTGGGAAT

FIG. 14



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GAATTCCAGAAGGCAGGAACAGAGAAAGTAGAAGGAAAGTCTTATAAAAGAAAGAGAATAGGCC
AGGCACGGTGGCTCACGCCTCTAATCCCAGCATTGGGAGGCTGAGGCAGGTGGATCATGAGG
TCAGGAGTTCAAGACCAACCTGACCAACATGGTGAAGCCCCGTCTCTACTAAAAATACAAAAAT
TAACCAGGCGTGTGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAA
CCCGAAAGGTGAAGGTTGCTGTGAGCCTAGATCAGGCCACTGCACTCTGACCTGGCGACAGAG
CGAGACTCCATGTCAAAGAAAAAGAAAGAGGATAAGAAAATTCCTAATCTGGAAGGCAGATAGC
TGATTAAGGGTCCACTGACTGCATAACATAATAATGATAAAAGACCAAATCAGAGCATATCT
TCAAGATATTCAGAGGATCTAAGTAAGAAGATC AAAAATTTGAGACAGAAAATACAATGCA
ATCAGAATGCCACTGGTCTTCTAACAGCAACTCTGAAACTAGATGATAATAAGCAATGCCT
TCAAAATTATGAAGGAAAATGCTTCTAACCTAGAGTTCTATGCTCCACCAAATTTAATCAA
GTATGAAGATAAATTAAAACATTCCAATATGCAAGGTCTCTAAGAATGAGTTACTATCT
TCAGAATATACTGAGGATATACTCTGCTAAAATGAAGGGAGAAACAAAAGAGAAAATGATGC
AATTCAAGGAAACAAGAAGTCTACAGAGAAAATGATTCTCAAGGTGTTAGAGGAGCATAATCCA
GGATGACCACAAGCAACGAGCCTAAAATCAGTCCAGATTAGGCCAGGTGCGGTGGCTCACACC
TGTAATCCCAGCACTTGGGAGGCCAAAGCAGGCTGGTGCCTGAGCTCAGAAGTTCGAGACCA
GTCTGGCAACATGGTAAACCCCCGTCTACTAAAATACAAAAAATTAGCTGGCGTGGTGG
CATGTGCCTGTATTCCCAGCTACTCTGGAGGCTGATGCAGGAGAATTGCTTGAACCCAGGAGGC
GGAGGTTGCAAGTGCAGGCAAGACTGCGCCACTGCACTACAGCCTCACCAACAGAGCGAGACTCCG
TCTCCAAACAAACAAACAAATCAATCCATATTAAAGCAGGGATGGAGGGCTCCAGAACAGAT
GTTTCCAAAAGAGAATAGAACTGATAGCTTACCCATGTGATTAACGTATTGAGAGGAGGAA
AATTGAGTATATACTTGTGACTGGTATATAAAAATAAGCGATGATTAAAGAAAAAAAG
AGGCAAGTTTAACTGCAGAAAATGGTAAAGACAAAAGGTATAGTTGTGCAACAAGGAAAAC
AGTTGTAAAAAAAGAAATGCAATCATACACCACATGACTCAGCTATGAACAGTATTGTA
TAGTCATAATACTACGGCGTGTAGGAGTATGAAAAGTATATGTGTGGCCGGGCATGGTGGCTC
ATGCCTGTAATCCCAGAACTTGGGAGGCCAGGGCGAGGCGGGTGGATCACGAGGTCAAGGAGATCGAGA
TCATCCTGGCTAACACAGTGAAACCCCCGTCTACTAAAATGCAAAAAAAAAAAAAAAA
AAAAAAATTAGCCGGCGTGGTGGCAGCCACCTGTAGTCCAGCTACTCAGGAGGCTGAGGCAG
GAGAATGGCGTGAACCCGGAGGCCAGGCTTGCAAGTGCAGGAGATCGCGCCACTGCACTCCAG
CCTGGGAGACAGAGCGAGACTCCATCTCAAAAAAAAGAAAAAAAAGAAAAAGAAAAGAAAA
GTATATGTGTTATTAGTGTATTAGAGCTAAATCCTCTTCTATATCTAAAAATGGAAAATCAAG
ATGTACAATAGCAGATATGCACATAAAAATAATGAAGATCTCTATTAAATGGAACCAAGTTA
AAAAGTTCAAAGTTGGTAGGGTTTCAGAATGGATAAGGTAGAGAGGGGATTGCTGTTTT
TGTTATAATCCTGTAGAACTAAAGTATGTAATTTTTATCCTATGCACATATAATTTGA
TGTTAGAGGATGAATTGCATATGTCAGAAATACCTGCATTGAAGGCAAATGGCTACTTCCC
AATACACTAGCTATCCATACATATAATAACACTTCCTAAAATCATTAAGACTAACATCTAG
GTTTCACTCTGACATATTAAATGAATCTGTTTGTCACTGATTATCATTATTCATTGTT
TATTAAGGGCAAGTGCCTAAAATTGGTTATTAGGCTAACTCAGAGGTGCTCAACCGG
GGAAGAATTTCATCCCAGGGACCATGTGGCAATGTCACAATACAGGTGGGGTTCTTATTGGT
ATCTAAATAGGTAGAAGCCAACGATGCTGCTAAACAAACCTACAATGGCAGGACAGCAAAGAATT
ATCCAGCCCCAAATGTAACAGTGCAGGTTGAGAAACCAAGCTCCAAGTCTTGAGGATTATT
TCATCAGAACGCTATACATAAGATTGATGATATGCAAAACATCTGCAATTAGGACTGACTCA
GCTAAATACCTCGGTGCAATGTTGGAAAGCAGTCTGGCTGTGAAATATATCTCGGAAATATTGA
GAATGGTAAAGACAAAAGGTATAATAATGATAATAACAAAACACAGAGCTTGTACCTCA
ATAATCTCTTCCATGGTCTAGGGCACTTTATAGACTAATAACACTCTGAGGATT
ACATACCACCTTTATCTAAGGACTGCAGGCACCTCACAAACACTCTCACGATGCAGGAAGTAT
TATTATCCCCATTATGTAAGTAAACAGAGGCACAAAAGTTAAGCAACTTGCCCAAAGCCA

FIG. 15A



METHOD FOR IDENTIFYING INHIBITORS OF NEURONAL DEGENERATION

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CACAAGTCAGTAGCAGCCAAAATCCTGACTCAGAACCTATTAACACTAAGAGAACTGGTCTAA
GCCATGCAGTGATAAAATTATGTGGGGTTATCCTAGTTCAATTCAAAGTCTATCGTTTTAGG
CTGATATTGTATATTCAATACCCCATCTGTTATAATTCCTCTTCTCCCACACTTCTTAGAG
ACCAAGGACTTAAAGCCCTAGAAGGGACTATGTTACTGAGTCCTCTCGAATCAAGCACA
TTTATGTGCAGTGTCAAGACAGCTAAATATAATGTAATTGGGAGGCTGAGAGCAG
GAGAATTGCTTGAACTCAGGAGGGAGGTTGCAGTGAGCTGAGATCCGCCACTGCACTCCAG
CCTGGCGACAGAGCGAGACTCCGCTCAAAAAAAAAAATGTAATTGGCTGATTATAG
TACAGAAAGCTGAGTACCAAGATAATGTAACATGCCAAGATCTCTCAGCTAGCTGACTATTCC
CTCTTCCACTATATCCTGCAGCCCTCCAGGAGAAAAGTCCCTGATAAGTTACAAAGCATAT
GAATGTGAATACGTTAATGTCCCCAGCCTCCCTACTCTCCTAAAACAGAAAACAAACTAA
TGAATATGTAATTGAGAAACTTCAGGTGGCACACTGGGTTGGTACTAGCTTAGGTAACAGCC
GCTCAGCCTTTAGACCTATTCCAACAAAAGCTTTAATTCTAAGGATTTCCAGAGCTC
TCGCCATACGTTCCCACAACAGCCAGACCAAAGACAAAAGTCTTCCCTGAGAAATATAG
AGCATGTGAATCACTTCTCTGTTCCCAGTCTGAGGCAAACACTGATTGCTCACTCAT
CATGTGCTACCTGGGCAAACAGGAATATTAAGTAGGAAGAAAGGTTATGTTAGGTAAGAGCG
TGACTTAGGGCTCTCCTACTTTTACAAAATGGAGACCTGGCATTGTTAGGCTCCACAAATGA
TGTGCCCTGACATTACTGGATATAGAAAGGTCACTGCTTAGGTGCGTCAGTGACAGCCACCC
GCTCTGATCCAGAAATTTCAGATGACTTGCACTCAGAGGATAAGCCTCTGGCATGTTAATAATGA
AAAAATAGAGACAATCACTGCCAGCTCATCTCAAATTAGCATCAGTGCAGGGTTAGTACTTT
GGTAGGGAGCTTGCTGCTAAATTCTCTGTAAGAGGAGGGAGAGACAGGGTTAAGGG
AAAAACTCCAAGACTGGAATGCCAATACAATAAAACTGTCGAACGTGAGTTTTCTCCCGAAC
CTTAAGATACTAGTAAGTCCTCCTCTAGCCAACCTTTACCAGGGCACCGCAGTTTCTT
AGAAGGAGGGTGTGGTTGCTCAGGTCTTCTATTCTCTGCCCTGCGCTAGTACATCT
AAAAAGGGAGCAGCAGTAGGAAAAGAGACACGTGGGTATTTCCTCTGTCTAGTCATTCC
CTGAATCATCACAAGTTATGCACCTTCCCCTAGCCAGCAGCGTTCGAGACTTCTCTCAA
TAATACGGTCTGTACTAAAAGGAAGAGTGGTGGAGAAGAGAGAGGGGGAGAAGACAAGCAA
GAAGGGCGTGGAGTGCCCTCCGCCGGAGTCGGAGGCCGGAGGCCGCGCAGGCCGCGAAG
CTGCTAGCCAGGAATGTGCCGCTAACTCGCAGGCCGCCGGAGCGCGGGGGCGCGCTGT
GGTCTGCCGGGGAGCGGGCAGAGGACGGCTGGCGCAGGGCAGGCTGAGCGGGCGGAG
GCGACGCCGCGCACCTGAGCGCCGGGGCGGGCGTCAGCGGCCACGACCCCTCCCACCGCG
CCGCGCCCTCGCGCGCCCTGGCTTCCGCTCGTCTGGCGCCCTCGGCTCCCTTC
CCGCCCTGGCTCCCTCCCTCCCTCCCTCTCTCTCCCTCCCTGCTCTGGGATTG
CCTGGAGCTCCGCAACCGCGAGTTGCCCGGCACCTTCCGCGGGCGGAAGAGCGCGGCCAGC
TTCGGCACACCTGGAGCCGGATCCCAGCCCTACGCCCTCGTCCCTACAAGCTCCTCAAAGGTA
AGGCCTCGCTCACACCGGCTTCCACGCTGGGGAGCAGCTGGGTCCCCGCTCCTCTG
CGAACCGGCTAGGAGCTCCGCGCTGCCCTGGAGTGGGGTTGTAGCTGACGGGACCTCGGA
CCGGCGGTGGCTAGAGCGCGGAGCAGGCAGACGACGAGCCGACAGGTGGCGGGTCA
GTATCTGACCGCCGCCGGCGGACCTGGTGGGGATGGGGCGGGCGGCGACTTGGGGTG
GGGTCACTCCTCTCCCTTAGGGCGGCATCGTCGGGGTCCGTACTGTAGGTGCGTG
GGAGAAACTTGCAGGGGGACCCGGGGCTGCTGGCCGGTAGTGA
AGGACTCCAAGGGGCGCAGCCCAGGGGAGACCCCTGGTGGGGCGGGGATCTACGCTCCCT
TACCCGCCCTTGTCTTACCTCAGCCCCGCCGGCTGCTGTGGGAGCGGGCGGCC
CTCCTGGAGGTGCTCCTGGCATCCTCGGGGCCGAGGAAGGAAGAGGAGGGAGCGGGCG
CCCTGGTGGCGGCCCTGAGGTGAGAGCCCGACCGGGCCCTTGGGAATATGGCGACCGGTGGCT
ACCGGACCGAGCAGCGGCCCTGGCGGAGCACACCAGACTTCTGGAGGGAGTGGAGGGAG
CGAGAAGATGCGCGCCAAGCAGAACCCCCCGGGCCCGGGGGAGGGGGCAGCAGCAG
GCGCTGGGAAGCCCCCGGGGCTCTGGGCACCCGGGGCG

FIG. 15B